

## **Soft template synthesis of cobalt(III) chelates with 2,8-dithio-3, 7-diaza-5-oxa-nonandithioamide-1,9 and with 2,7-dithio-3,6-diazaoctadien-3, 5-dithioamide-1,8 into cobalt(III)hexacyanoferrate(II) gelatin-immobilized matrix materials**

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### **Abstract**

The complexing processes in the triple CoIII-dithiooxamide- methanal and CoIII-dithiooxamid-glyoxal systems taking place in the KCoFe(CN)<sub>6</sub>-gelatin-immobilized matrix in contact with aqueous-alkaline solutions (pH~12) containing (dithiooxamide + methanal) and (dithiooxamide + glyoxal), have been studied. Template synthesis leading to macrocyclic CoIII coordination compounds with tetradentate. N,N,S,S-donor ligands-(2,8-dithio-3,7-diaza-5-oxanonandithioamide-1,9) and (2,7-dithio-3,6-diazaoctadien-3,5-dithioamide-1,8) occurs under these specific conditions. Dithiooxamide, methanal and glyoxal are the ligand synthons in these processes.

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